Figure 1

MKLP1 (variant 1) open reading frame (SEQ ID NO:1) and translation to corresponding polypeptide (SEQ ID NO:2)

5

MKLP1 var.1 1 atgaaqtcaqcqaqaqctaaqacaccccqqaaacctaccqtqaaaaaaqqqtcccaaacq M K S A R A K T P R K P T V K K G S Q T 1 MKLP1 var.1 61 ${\tt aaccttaaagacccagttggggtatactgtagggtgcgcccactgggctttcctgatcaactgtagggtgcgcccactgggctttcctgatcaactgtagggtgcgcccactgggctttcctgatcaactgtagggtgcgcccactgggctttcctgatcaactgtagggtgcgcccactgggctttcctgatcaactgtagggtgcgcccactgggctttcctgatcaactgtagggtgcgcccactgggctttcctgatcaactgtagggtgcgcccactgggctttcctgatcaactgtagggtgcgcccactgggctttcctgatcaactgtagggtgcgcccactgggctttcctgatcaactgtagggtgcgcccactgggctttcctgatcaactgtagggtgcgcccactgggctttcctgatcaactgtagggtgcgcccactgggctttcctgatcaactgtagggtgcgcccactgggctttcctgatcaactgtagggtgcgcccactgggctttcctgatcaactgtagggtgcgcccactgggctttcctgatcaactgtagggtgcgcccactgggctttcctgatcaactgtagggtgcgcccactgggctttcctcctgatcaactgtagggtgcgcccactgggctttcctgatcaactgtagggtgcgcccactgggctttccctgatcaactgatcaactgtagggtgcgcccactgggctttcctgatcaac$ 10 N L K D P V G V Y C R V R P L G F P D Q 21 MKLP1 var.1 121 gagtgttgcatagaagtgatcaataatacaactgttcagcttcatactcctgagggctac E C C I E V I N N T T V Q L H T P E G Y 41 MKLP1 var.1 181 agactcaaccqaaatqqaqactataaqqaqactcaqtattcatttaaacaaqtatttqqc R L N R N G D Y K E T Q Y S F K Q V F G 61 MKLP1 var.1 241 actcacaccaccagaaggaactctttgatgttgtggctaatcccttggtcaatgacctc THTTQKELFDVVANPLVNDL 81 MKLP1 var.1 301 I H G K N G L L F T Y G V T G S G K T H 101 MKLP1 var.1 361 acaatqactqqttctccaqqqqaaqqqctqcttcctcqttqtttqqacatqatcttt 20 T M T G S P G E G G L L P R C L D M I F 121 MKLP1 var.1 421 aacagtatagggtcatttcaagctaaacgataiyiilitcaaatctaatgataggaatagt 141 N S I G S F Q A K R Y V F K S N D R N S atggatatacagtgtgaggttgatgccttattagaacgtcagaaaagagaagctatgccc MKLP1 var.1 481 161 M D I Q C E V D A L L E R Q K R E A M P MKLP1 var.1 541 aatccaaagacttcttctagcaaacgacaagtagatccagagtttgcagatatgataact N P K T S S S K R Q V D P E F A D M I T 181 MKLP1 var.1 601 $\tt gtacaagaattctgcaaagcagaagaggttgatgaagatagtgtctatggtgtatttgtc$ 201 V Q E F C K A E E V D E D S V Y G V F V tcttatattgaaatatataataattacatatatgatctattggaagaggtgccgtttgat MKLP1 var.1 661 30 S Y I E I Y N N Y I Y D L L E E V P F D 221 MKLPl var.1 721 cccataaaacccaaacctccacaatctaaattgcttcgtgaagataagaaccataacatg PIKPKPPQ S K L L R E D K N H N M 241 MKLP1 var.1 781 tatgttgcaggatgtacagaagttgaagtgaaatctactgaggaggcttttgaagttttc Y V A G C T E V E V K S T E E A F E V F 261 MKLP1 var.1 841 tggagaggccagaaaaagagacgtattgctaatacccatttgaatcgtgagtccagccgtW R G Q K K R R I A N T H L N R E S S 281 MKLP1 var.1 901 $\verb|tcccatagcgtgttcaacattaaattagttcaggctcccttggatgcagatggagacaat|$ 301 S H S V F N I K L V Q A P L D A D G D N MKLP1 var.1 961 qtcttacaqqaaaaaqaacaaatcactataaqtcaqttqtccttqqtaqatcttqctqqa 40 V L Q E K E Q I T I S Q L S L V D L A G 321 ${\tt MKLP1}$ var. 1 1021 agtgaaagaactaaccggaccagagcagaagggaacagattacgtgaagctggtaatatt S E R T N R T. R A E G N R L R E A G N I

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MKLP1 var.1 1081 aatcagtcactaatgacgctaagaacatgtatggatgtcctaagagagaaccaaatgtat N Q S L M T L R T C M D V L R E N Q M Y MKLP1 var.1 1141 qqaactaacaaqatqqttccatatcgagattcaaagttaacccatctgttcaagaactac G T N K M V P Y R D S K L T H L F K N Y $5 \quad \text{MKLP1 var.1 1201 tttgatqqqqaaqqaaaqttqcqqqatqatcqtqttqtqaaccccaaqqctqaaqattat}$ F D G E G K V R M I V C V N P K A E D Y MKLP1 var.1 1261 qaagaaaacttgcaagtcatgagatttgcggaagtgactcaagaagttgaagtagcaaga E E N L Q V M R F A E V T Q E V E V A R 421 MKLP1 var.1 1321 cctgtagacaaggcaatatgtggtttaacgcctgggaggagatacagaaaccagcctcga 10 441 P V D K A I C G L T P G R R Y R N Q P R MKLP1 var.1 1381 ggtccagttggaaatgaaccattggttactgacqtggttttgcaqagttttccacctttg G P V G N E P L V T D V V L Q S F P P L MKLP1 var.1 1441 ccgtcatgcgaaattttggatatcaacgatgagcagacacttccaaggctgattgaagcc P S C E I L D I N D E Q T L P R L I E A L E K R H N L R Q M M I D E F N K Q S N MKLP1 var.1 1561 gcttttaaagctttgttacaagaatttgacaatgctgttttaagtaaagaaaaccacatg A F K A L L Q E F D N A V L S K E N H M 521 MKLP1 var.1 1621 caagggaaactaaatgaaaaggagaagatgatctcaggacagaaattggaaatagaacga 20 QGKLNEKEKMISGQKLEIER 541 MKLP1 var.1 1681 ctggaaaagaaaacaaactttagaatataagattgagattttagagaaaacaactact LEKKNKTLEYKIEILEKTT 561 ${\tt MKLP1} \ \ {\tt var.1} \ \ 1741 \ \ {\tt atctatgaggaagataaacgcaatttgcaacaggaacttgaaactcagaacccagaaactt}$ I Y E E D K R N L Q Q E L E T Q N Q K L 581 MKLP1 var.1 1801 cagcgacagttttctgacaaacgcagattagaagccaggttgcaaggcatggtgacagaa Q R Q F S D K R R L E A R L Q G M V T E MKLP1 var.1 1861 acgacaatgaagtgggagaaagaatgtgagcgtagagtggcagccaaacagctggagatg 621 TTMKWEKECERRVAAKQLEM MKLP1 var.1 1921 cagaataaactctgggttaaagatgaaaagctgaaacaactgaaggctattgttactgaa O N K L W V K D E K L K Q L K A I V T E 30 MKLP1 var.1 1981 cctaaaactgagaagccagagagaccttttgggagcgagattgagaaaaagttactcaa PKTEKPERPSRERDREKVTQ MKLP1 var.1 2041 agatetgtttctccatcacctgtgcctctttctagtaactatattgctcagatttccaac R S V S P S P V P L S S N Y I A Q I S N MKLP1 var.1 2101 ggccagcaactcatgagccagccacagctacataggcgctctaactcttgcagcagcatt G Q Q L M S Q P Q L H R R S N S C S S I 701 MKLP1 var.1 2161 tctgtagcttcctgtatttcggaatgggagcagaaaattcctacgtacaacacctctc S V A S C I S E W E Q K I P T Y N T P L 721 MKLP1 var.1 2221 aaagtcacatctattgcaaggcgtaggcaggagccaggacaaagcaaaacttgtatc 741 K V T S I A R R R Q Q E P G Q S K T C I MKLP1 var.1 2281 qtqtcaqacaqaaqgcqaggqatqtactqgactgaaqgcagggaggtggttcctacattc V S D R R R G M Y W T E G R E V V P T F ${\tt MKLP1 \ var.1 \ 2341 \ agaaatgagatagaaatagaagaggatcattgcggcaggttactctttcaacctgatcag}$ 781 RNEIEIEEDHCGRLLFQPDQ

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MKLP1 var.1 2401 aacgcaccactattcgtctccgacacagacgatcacgctctgcaggagacagatgggta N A P P I R L R H R R S R S A G D R W V MKLP1 var.1 2461 gatcataagcccgcctctaacatgcaaactgaaacagtcatgcagccacatgtccctcat D H K P A S N M Q T E T V M Q P H V P H MKLP1 var.1 2521 gccatcacagtatctgttgcaaatgaaaaggcactagctaagtgtgagaagtacatgctg AITVSVANEKALAKCEKYML MKLP1 var.1 2581 acccaccaggaactagcctccgatggggagattgaaactaaactaattaagggtgatatt THQELASDGEIETKLIKGDI MKLP1 var.1 2641 tataaaacaaggggtggtggacaatctgttcagtttactgatattgagactttaaagcaa 10 Y K T R G G G Q S V Q F T D I E T L K Q MKLP1 var.1 2701 qaatcaccaaatggtagtcgaaaacgaagatcttccacagtagcacctgcccaaccagat E S P N G S R K R R S'S T V A P A Q P D MKLP1 var.1 2761 ggtgcagagtctgaatggaccgatgtagaaacaaggtgttctgtggctgtggagatgaga G A E S E W T D V E T R C S V A V E M R ${\tt MKLP1}$ var.1 2821 gcaggatcccagctgggacctggatatcagcatcacgcacaacccaagcgcaaaaagcca AGSQLGPGYQHHAQPKRKKP MKLP1 var.1 2881 tga 961

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Figure 2 MKLP1 Antisense fragment

5'TGCTCTGGGTCAGTGTATGATGTAGCTGAGGTCCGTGATTTTAACAAAGCTGGAGTTC
TACAAGATGACCTGGAAGACTGCTTCTGGCATGGCTTTCGAGAAATCATCCACACAAATG
AAAATGTTCTTTCAGTACTGGGACTGTCAGTTCATGGCTTTTGCGCTTGGGTTGTGCGTG
ATGCTGATATCCAGGTCCCAGCT 3'

10

5

Figure 3

Alignment between the MKLP1 open reading frame and the MKLP1

antisense fragment

5				
	MKLP1	var.2	1	GCAGAGCACCGCGCCTTAGCCGCGAAGTTCTAGTTCTTGCTGCCGGTCCTAACGTCCCGC
	MKLP1	AS	1	
	MKLP1	var.2	61	AGTCTTCGCCAGCCAGCCGTCCCGCATGCGCGTTTGGGCGGCGTGGAGCCTGCTGCCATG
	MKLP1	AS	1	
10	MKLP1	var.2	121	AAGTCAGCGAGAGCTAAGACACCCCGGAAACCTACCGTGAAAAAAAGGGTCCCAAACGAAC
	MKLP1	AS	1	
	MKLP1	var.2	181	CTTAAAGACCCAGTTGGGGTATACTGTAGGGTGCGCCCACTGGGCTTTCCTGATCAAGAG
	MKLP1	AS	1	
	MKLP1	var.2	241	${\tt TGTTGCATAGAAGTGATCAATAATACAACTGTTCAGCTTCATACTCCTGAGGGCTACAGA}$
15	MKLP1	AS	1	
	MKLP1	var.2	301	$\tt CTCAACCGAAATGGAGACTATAAGGAGACTCAGTATTCATTTAAACAAGTATTTGGCACT$
	MKLP1	AS	1	
	MKLP1	var.2	361	${\tt CACACCAGGAAGGAACTCTTTGATGTTGTGGCTAATCCCTTGGTCAATGACCTCATT}$
	MKLP1	AS	1	
20	MKLP1	var.2	421	CATGGCAAAAATGGTCTTCTTTTTACATATGGTGTGACGGGAAGTGGAAAAACTCACACA
	MKLP1	AS	1	
	MKLP1	var.2	481	$\tt ATGACTGGTTCTCCAGGGGAAGGAGGGCTGCTTCCTCGTTGTTTGGACATGATCTTTAAC$
	MKLP1	AS	1	
	MKLP1	var.2	541	AGTATAGGGTCATTTCAAGCTAAACGATATGTTTTCAAATCTAATGATAGGAATAGTATG
25	MKLP1	AS	1	
	MKLP1	var.2	601	GATATACAGTGTGAGGTTGATGCCTTATTAGAACGTCAGAAAAGAGAAACTATGCCCAAT
	MKLP1	AS	1	
	MKLP1	var.2	661	CCAAAGACTTCTTCTAGCAAACGACAAGTAGATCCAGAGTTTGCAGATATGATAACTGTA
	MKLP1	AS	1	
30	MKLP1	var.2	721	CAAGAATTCTGCAAAGCAGAAGAGGTTGATGAAGATAGTGTCTATGGTGTATTTGTCTCT
	MKLP1	AS	1	
	MKLP1	var.2	781	TATATTGAAATATAATAATTACATATATGATCTATTGGAAGAGGTGCCGTTTGATCCC
	MKLP1	AS	1	
	MKLP1	var.2	841	ATAAAACCCAAACCTCCACAATCTAAATTGCTTCGTGAAGATAAGAACCATAACATGTAT
35	MKLP1	AS	1	
	MKLP1	var.2	901	GTTGCAGGATGTACAGAAGTTGAAGTGAAATCTACTGAGGAGGCTTTTGAAGTTTTCTGG
	MKLP1	AS	1	
	MKLP1	var.2	961	AGAGGCCAGAAAAAGAGACGTATTGCTAATACCCATTTGAATCGTGAGTCCAGCCGTTCC
	MKLP1	AS	1	
40	MKLP1	var.2	1021	CATAGCGTGTTCAACATTAAATTAGTTCAGGCTCCCTTGGATGCAGATGGAGACAATGTC
	MKLP1	AS	1	
	MKLP1	var.2	1081	${\tt TTACAGGAAAAAGAACAAATCACTATAAGTCAGTTGTCCTTGGTAGATCTTGCTGGAAGT}$
	MKLP1	AS	1	

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	MKLP1	var.2	1141	GAAAGAACTAACCGGACCAGAGCAGAAGGGAACAGATTACGTGAAGCTGGTAATATTAAT
	MKLP1	AS	1	
	MKLP1	var.2	1201	${\tt CAGTCACTAATGACGCTAAGAACATGTATGGATGTCCTAAGAGAGAACCAAATGTATGGATGTCCTAAGAGAGAACCAAATGTATGGATGTCCTAAGAGAGAACCAAATGTATGGATGTCCTAAGAGAGAACCAAATGTATGGATGTCCTAAGAGAGAACCAAATGTATGGATGTCCTAAGAGAGAACCAAATGTATGGATGTCCTAAGAGAGAACCAAATGTATGGATGTCCTAAGAGAGAACCAAATGTATGGATGTCCTAAGAGAGAACCAAATGTATGGATGTCCTAAGAGAGAACCAAATGTATGGATGTCCTAAGAGAGAACCAAATGTATGGATGTCCTAAGAGAGAACCAAATGTATGGATGTCCTAAGAGAGAACCAAATGTATGGATGTCCTAAGAGAGAACCAAATGTATGGATGTCCTAAGAGAGAACCAAAATGTATGGATGTCCTAAGAGAGAACCAAATGTATGGATGTCCTAAGAGAGAACCAAATGTATGGATGTCCTAAGAGAGAACCAAAATGTATGGATGTCCTAAGAGAGAACCAAAATGTATGGATGTCCTAAGAGAGAACCAAAATGTATGGATGTCCTAAGAGAGAACCAAAATGTATGGATGTCCTAAGAGAGAACCAAAATGTATGGATGTCCTAAGAGAGAACCAAAATGTATGGATGTCCTAAGAGAGAACCAAAATGTATGGATGTCCTAAGAGAGAACCAAAATGTATGGATGTCCTAAGAGAGAACCAAAATGTATGGATGTCCTAAGAGAGAG$
	MKLP1	AS	1	
5	MKLP1	var.2	1261	${\tt ACTAACAAGATGGTTCCATATCGAGATTCAAAGTTAACCCATCTGTTCAAGAACTACTTT}$
	MKLP1	AS	1	
	MKLP1	var.2	1321	GATGGGGAAGGAAAAGTGCGGATGATCGTGTGTGTAACCCCCAAGGCTGAAGATTATGAA
	MKLP1	AS	1	
	MKLP1	var.2	1381	GAAAACTTGCAAGTCATGAGATTTGCGGAAGTGACTCAAGAAGTTGAAGTAGCAAGACCT
10	MKLP1	AS	1	
	MKLP1	var.2	1441	GTAGACAAGGCAATATGTGGTTTAACGCCTGGGAGGAGATACAGAAACCAGCCTCGAGGT
	MKLP1	AS	1	
	MKLP1	var.2	1501	${\tt CCAGTTGGAAATGAACCATTGGTTACTGACGTGGTTTTGCAGAGTTTTCCACCTTTGCCG}$
	MKLP1	AS	1	
15	MKLP1	var.2	1561	TCATGCGAAATTTTGGATATCAACGATGAGCAGACACTTCCAAGGCTGATTGAAGCCTTA
	MKLP1	AS	1	
	MKLP1	var.2	1621	GAGAAACGACATAACTTACGACAAATGATGATTGATGAGTTTAACAAACA
	MKLP1	AS	1	
	MKLP1	var.2	1681	$\tt TTTAAAGCTTTGTTACAAGAATTTGACAATGCTGTTTTAAGTAAAGAAAACCACATGCAAGAAACCACATGCAAGAAAAACCACATGCAAGAAAAACCACATGCAAGAAAAACCACATGCAAGAAAAACCACATGCAAGAAAAACCACATGCAAGAAAAAAAA$
20	MKLP1	AS	1	
	MKLP1	var.2	1741	GGGAAACTAAATGAAAAGGAGAAGATGATCTCAGGACAGAAATTGGAAATAGAACGACTG
	MKLP1	AS	1	
	MKLP1	var.2	1801	GAAAAGAAAAACTTTAGAATATAAGATTGAGATTTTAGAGAAAACAACTACTATC
	MKLP1	AS	1	
25	MKLP1	var.2	1861	TATGAGGAAGATAAACGCAATTTGCAACAGGAACTTGAAACTCAGAACCAGAAACTTCAG
	MKLP1	AS	1	
	MKLP1	var.2	1921	$\tt CGACAGTTTTCTGACAAACGCAGATTAGAAGCCAGGTTGCAAGGCATGGTGACAGAAACGCAGAAACGCAGGTTGCAAGGCATGGTGACAGAAACGCAGAAACGCAGATTAGAAGCCAGGTTGCAAGGCATGGTGACAGAAACGCAGAAACGCAGATTAGAAGCCAGGTTGCAAGGCATGGTGACAGAAACGCAGAAACGCAGATTAGAAGCCAGGTTGCAAGGCATGGTGACAGAAACGCAGAAACGCAGGTTGCAAGGCATGGTGACAGAAACGCAGAAACGCAGGTTGCAAGGCATGGTGACAGAAACGCAGAAACGCAGAAACGCAGGTTGCAAGGCATGGTGACAGAAACGCAGAAACGCAGGTTGCAAGGCATGGTGACAGAAACGCAGAAACGCAGGTTGCAAGGCATGGTGACAGAAACGCAGAAACGCAGAAACGCAGAAACGCAGAAACGCAGAAACGCAGAAACGCAGAAACGCAGAAACGCAGAAACGCAGAAACGCAGAAACGCAGAAACGCAAGAAACGCAAGAAACGCAAGAAACGCAAGAAACGCAAGAAACGCAAGAAACGCAAGAAAACGCAAGAAAACGCAAGAAAACGCAAGAAAACGCAAGAAAACGCAAGAAAACGCAAGAAAACGCAAGAAAAACGCAAGAAAAAA$
	MKLP1	AS	1	
	MKLP1	var.2	1981	ACAATGAAGTGGGAGAAAGAATGTGAGCGTAGAGTGGCAGCCAAACAGCTGGAGATGCAG
30	MKLP1	AS	1	
	MKLP1	var.2	2041	${\tt AATAAACTCTGGGTTAAAGATGAAAAGCTGAAACAACTGAAGGCTATTGTTACTGAACCTGAACCTGAAGGCTATTGTTACTGAACCTGAACCTGAAGGCTATTGTTACTGAACCTGAACCTGAAGGCTATTGTTACTGAACCTGAACCTGAAGGCTATTGTTACTGAACCTGAACCTGAAGGCTATTGTTACTGAACCTGAACCTGAAGGCTATTGTTACTGAACCTGAACCTGAAGGCTATTGTTACTGAACCTGAACCTGAAGGCTATTGTTACTGAACCTGAACCTGAAGGCTATTGTTACTGAACCTGAACCTGAAGGCTATTGTTACTGAACCTGAACCTGAAGGCTATTGTTACTGAACCTGAACCTGAAGGCTATTGTTACTGAACCTGAACCTGAAGGCTATTGTTACTGAACCTGAACCTGAACCTGAAGGCTATTGTTACTGAACCTGAACCTGAACCTGAAGGCTATTGTTACTGAACAACCTGAACCTGAACAACCTGAACCTGAACCTGAACCTGAACCTGAACCTGAACCTGAACCTGAACCTG$
	MKLP1	AS	1	
	MKLP1	var.2	2101	AAAACTGAGAAGCCAGAGAGACCCTCTCGGGAGCGAGATCGAGAAAAAGTTACTCAAAGA
	MKLP1	AS	1	
35	MKLP1	var.2	2161	${\tt TCTGTTTCTCCATCACCTGTGCCTTTACTCTTTCAACCTGATCAGAACGCACCACCAATTGTCTGTTTCAACCTGATCAGAACGCACCACCAATTGTTCAACCTGATCAGAACGCACCAACCA$
	MKLP1	AS	1	
	MKLP1	var.2	2221	CGTCTCCGACACAGACGATCACGCTCTGCAGGAGACAGATGGGTAGATCATAAGCCCGCC
	MKLP1	AS	1	
	MKLP1	var.2	2281	TCTAACATGCAAACTGAAACAGTCATGCAGCCACATGTCCCTCATGCCATCACAGTATCT
40	MKLP1	AS	1	
	MKLP1	var.2	2341	GTTGCAAATGAAAAGGCACTAGCTAAGTGTGAGAAGTACATGCTGACCCACCAGGAACTA
	MKLP1	AS	1	
	MKLP1	var.2	2401	GCCTCCGATGGGGAGATTGAAACTAAACTAATTAAGGGTGATATTTATAAAACAAGGGGT
	MKLP1	AS	1	

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	MKLP1	var.2	2461	${\tt GGTGGACAATCTGTTCAGTTTACTGATATTGAGACTTTAAAGCAAGAATCACCAAATGGT}$
	MKLP1	AS	1	
	MKLP1	var.2	2521	AGTCGAAAACGAAGATCTTCCACAGTAGCACCTGCCCAACCAGATGGTGCAGAGTCTGAA
	MKLP1	AS	1	
5	MKLP1	var.2	2581	$\tt TGGACCGATGTAGAAACAAGGTGTTCTGTGGCTGTGGAGATGAGAGCAGGATCCC{\color{blue} AGCTG} \\ \tt AGCTG{\color{blue} AGCAGGATCCC} \\ \tt AGCTG{\color{blue} AGCAGGATCC} \\ \tt AGCTG{\color{blue} AGCAGGATCCC} \\ \tt AGCTG{\color{blue} AGCAGGATCC} \\ \tt AGCTG{\color{blue} AGCAGGATCCC} \\ \tt AGCTG{\color{blue} AGCAGGATCC} \\ \tt AGCTG{\color{blue} AGCAGGATCCC} \\ \tt AGCTG{\color{blue} AGC$
	MKLP1	AS	1	AGCTG
	MKLP1	var.2	2641	GGACCTGGATATCAGCATCACGCACAACCCAAGCGCAAAAAGCCATGAACTGACAGTCCC
	MKLP1	AS	6	GGACCTGGATATCAGCATCACGCACAACCCAAGCGC-AAAAGCCATGAACTGACAGTCCC
	MKLP1	var.2	2701	AGTACTGAAAGAACATTTTCATTTGTGTGGATGATTTCTCGAAAGCCATGCCAGAAGCAG
10	MKLP1	AS	65	AGTACTGAAAGAACATTTTCATTTGTGTGGATGATTTCTCGAAAGCCATGCCAGAAGCAG
	MKLP1	var.2	2761	TCTTCCAGGTCATCTTGTAGAACTCCAGCTTTGTTGAAAATCACGGACCTCAGCTACATC
	MKLP1	AS	125	TCTTCCAGGTCATCTTGTAGAACTCCAGCTTTGTT-AAAATCACGGACCTCAGCTACATC
	MKLP1	var.2	2821	ATACACTGACCCAGAGCAAAGCTTTCCCTATGGTTCCAAAGACAACTAGTATTCAACAAA
	MKLP1	AS	184	ATACACTGACCCAGAGCA
15	MKLP1	var.2	2881	${\tt CCTTGTATAGTATATTTTGCCATATTTAATATAATAGCAGAGGAAGA \dot{C}TCCTTTTTT}$
	MKLP1	AS	201	
	MKLP1	var.2	2941	${\tt CATCACTGTATGAATTTTTTATAATGTTTTTTTAAAATATATTTCATGTATACTTATAAA}$
	MKLP1	AS	201	
	MKLP1	var.2	3001	$\tt CTAATTCACACAAGTGTTTGTCTTAGATGATTAAGGAAGACTATATCTAGATCATGTCTG$
20	MKLP1	AS	201	
	MKLP1	var.2	3061	${\tt ATTTTTTTTGTGACTTCTCCAGCCCTGGTCTGAATTTCTTAAGGTTTTATAAACAAATG}$
	MKLP1	AS	201	
	MKLP1	var.2	3121	$\tt CTGCTATTTATTAGCTGCAAGAATGCACTTTAGAACTATTTGACAATTCAGACTTTCAAA$
	MKLP1	AS	201	
25	MKLP1	var.2	3181	$\tt ATAAAGATGTAAATGACTGGCCAATAATAACCATTTTAGGAAGGTGTTTTGAATTCTGTA$
	MKLP1	AS	201	
	MKLP1	var.2	3241	${\tt TGTATATTCACTTTCTGACATTTAGATATGCCAAAAGAATTAAAATCAAAAGCACTAA}$
	MKLP1	AS	201	
	MKLP1	var.2	3301	GAAATAAAAAAAAAAAAAAA
30	MKLP1	AS	201	

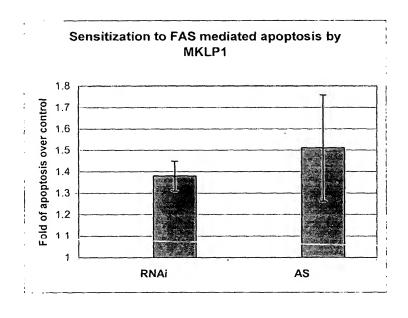
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Figure 4 MKLP1 siRNA (SEQ ID NO:4)

5 5' AAGTATTTGGCACTCACACCA '3

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Figure 5 Validation of the anti-apoptotic effect of MKLP1 -Sensitization to FAS mediated apoptosis by MKLP1 AS fragment and 5 MKLP1 siRNA ("RNAi")



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